2.4GHz Digital
Wireless Peephole Viewer
User Manual

- Thanks for purchasing this product.
- Please carefully read this user manual before using the product and follow the manual to install and operate.

Contents

1. Introduction 2
2. Features..... 2
3. Packing list..... 3
5. Indoor monitor 4
6. Installation instructions of peephole..... 6
7. E-lock connection 7
8. Operation..... 9
9. Specifications 14
10. Failure diagnosis 15

1. Introduction

The product is composed of peephole camera, peephole host, indoor monitor and wireless unlock control. You can operate the indoor monitor to communicate with visitors via voice and video, and then unlock the door if you wish. It's applicable in apartment, hotel, office, building and so on.

The product is easy to install in variable types of doors (the door thickness ranges from 35 to 110mm, the peephole diameter ranges from 14 to 38mm). Indoor monitor is portable. It can be hung on the wall or cabinet, or be placed on the desk, tea table.

2. Features

(1) 2.4GHz digital frequency hopping and encryption technology, transmission distance up to 200 meters at open area, robust anti-interference

(2) Clear night vision can capture image in low-illumination environment

(3) 3.5 or 7 inch TFT color panel for indoor monitor, the peephole is made of zinc alloy.

(4) Surveillance, wireless unlock, hands-free call and talk

(5) 16 chord melodies and melody volume is adjustable

(6) Date (only 1V1 system support) and time shown on the screen

(7) Indoor monitor could take pictures automatically or by instruction, it could store about 100 pictures with date and time

(8) Brightness and talk volume are adjustable

(9) Support motion detection. When the visitor comes close to the peephole within 1.5 meters, the indoor monitor will start to work and take one photo soon. If no action is taken for 10 seconds after that, it will enter into sleep mode.

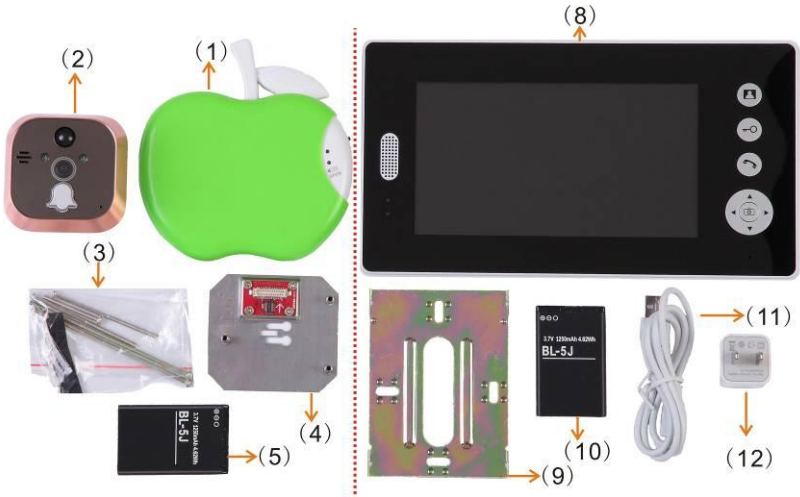
(10) The peephole and the indoor monitor works with BL-5J Lithium battery.

(11) The peephole can work about 1 month. The peephole with USB power adapter can work all the while.

(12) Wireless unlock control supports power on and power off unlock mode

(13) One peephole supports up to 4 indoor monitors and vice versa

3. Packing list



Outdoor part (Peephole part)

(1) Peephole host (2) Camera of peephole (3) Screws and tape

(4) Fixed board (5) BL-5J battery

(6) Wireless unlock control (option) (7) Remote control (option)

Indoor monitor part

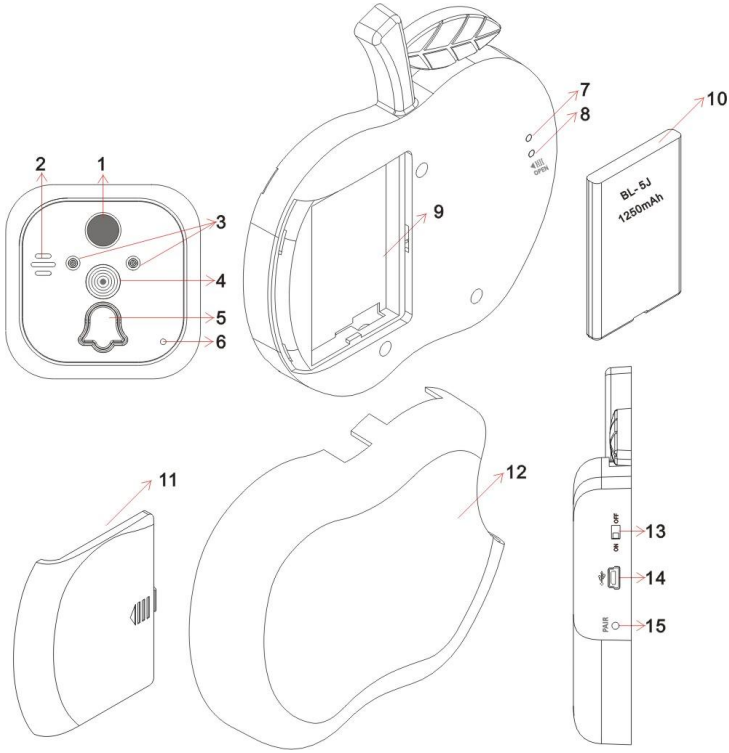
(8) 3.5” indoor monitor or 7” indoor monitor (9) Fixed iron for 7“ indoor monitor

(10) BL-5J battery (11) USB Cable

(12) USB power adapter, Input: 100-240V 50/60Hz Output: 5V/1A

(13) User manual

4. Peephole



(1) Motion detection sensor (2) Speaker (3) Infrared light (Red means turn on night vision, Blue means setting motion sensor work mode) (4) Camera lens

(5) 'Call' button/motion sensor work mode selection (6) Microphone

(7) Green light means paring, red light means low voltage

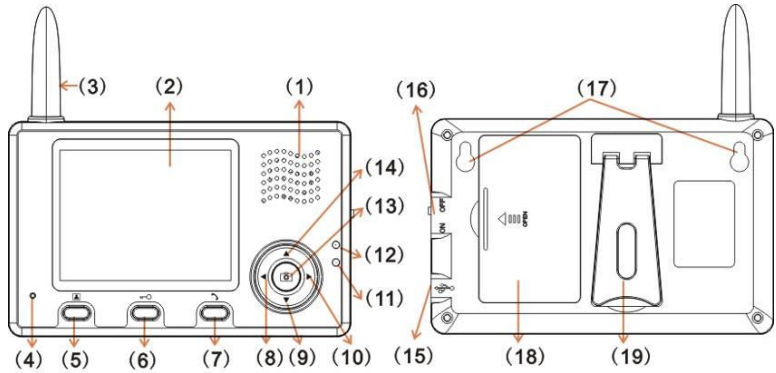
(8) Green light means charging, red light means full charge.

(9) Battery slot (10) BL-5J Battery (11) Battery lid (12) Back cover (13) Power switch

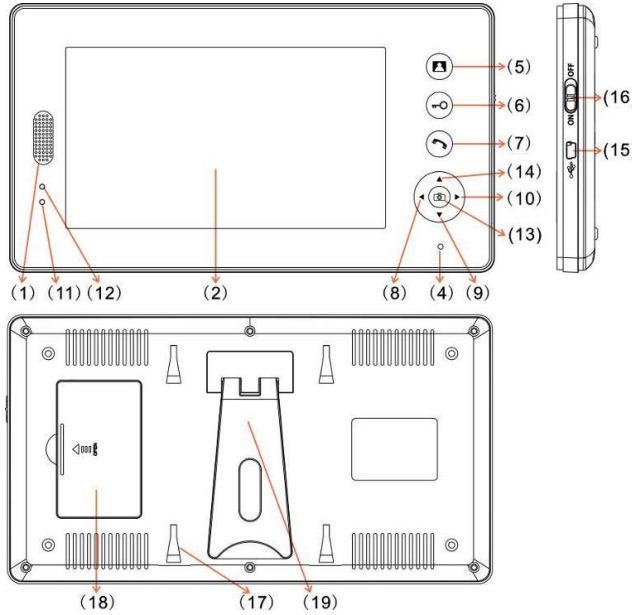
(14) USB interface for charge (15) 'Pair' button

5. Indoor monitor

(A) 3.5" indoor monitor



(B) 7” indoor Monitor



(1) Speaker (2) TFT screen (3) Antenna (4) Microphone

(5) ‘Monitor’ button (6) ’Unlock’ button (7) ’Talk’ button

(8) ◄ Left (9) ▼Down (10) ► Right (11) charging light

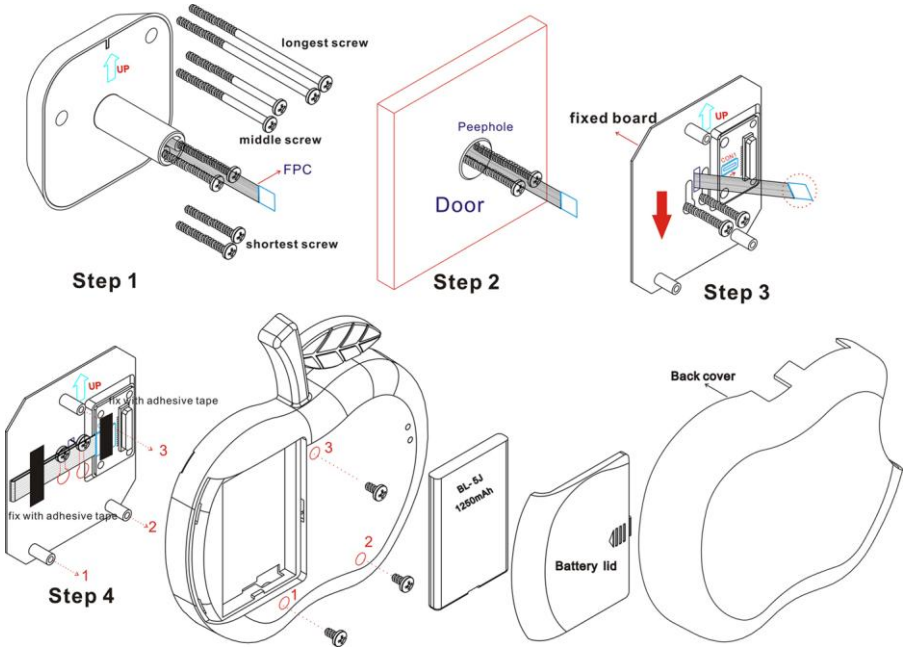
(12) Working light (13) ‘Take picture ’ button (14) ▲Up (15) USB interface

(16) Power switch (17) Fixed slot (18) Battery lid (19) Bracket

6. Installation instructions of peephole

Remark: Please make sure that the power switch is off or the battery is not inserted before installation. Flexible PCB is easily twisted and flectional, you should gently lift to avoid drape, nick, crunch caused by bump with other hard thing. You can take a look at whether there is crack on the PCB. If crack, you should exchange it.

The installation process for peephole is shown in the below diagram, the detailed steps are as follows.



Step 1, based on the thickness of the door, select the corresponding screw and fix the peephole camera using two screws.

If the door thickness is less than 65mm, select the shortest screw.

Else if the door thickness is less than 95mm, select the middle screw.

Else if the door thickness is less than 120mm, select the longest screw.

Step 2. Let flexible PCB and screw spread out of the peephole of door.

Step 3, Let the flexible PCB and screw spread out the fixed board. Push the fixed

board down and tighten the screws. Then connect the FPC with the CON1 of fixed board, for the redundant FPC, you can use the tape to paste and fix it. Notes: Not let the redundant FPC spread out of the fixed board.

Step 4, Align the holes of the fixed board and the holes of peephole host, and then use 3 pieces of screws to fix them. Lastly insert BL-5J battery and close the lid.

Then user has to do three basic function tests for peephole.

(1) Turn power switch to “ON”, the peephole will make a sound of “DU…DU…”.

(2) Turn on the indoor monitor, the display will show image clearly.

(3) Press the ‘call’ button of peephole, indoor monitor will make a ring. After press ‘talk’ button, Indoor monitor will be able to talk with peephole.

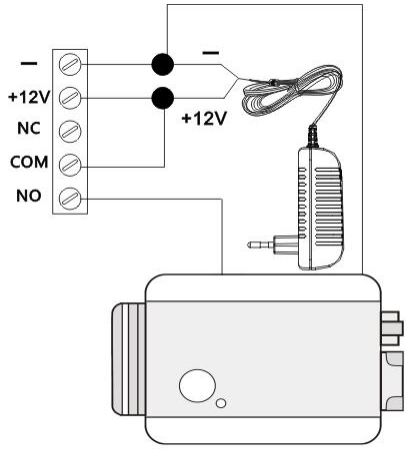
If all three tests are passed, the peephole installation is successful.

If not pass, the connection between flexible PCB and peephole board may be wrong or flexible PCB may be broken down.

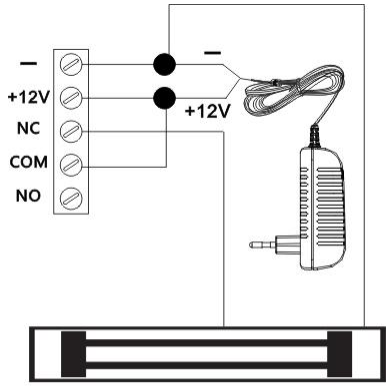
7. E-lock connection

E-lock and power of e-lock are not included in this product. Wireless unlock control connects the e-lock, shares 12V power adapter with e-lock when it works.

Notes: The distance between wireless unlock control and outdoor camera should be within 10 meters so that the wireless unlock control is able to receive unlock command. The remote control uses 27A/12V battery. User presses the button of remote control to unlock. The distance between remote control and unlock control should be within 15 meters.



Power on unlock diagram



Power off unlock diagram

Schematic diagram

The wireless video peephole system can work together with intelligent lock, remote lock, Special remote control module will need to be embedded into the intelligent lock.

Intelligent lock, remote lock uses 4pcs AA batteries.

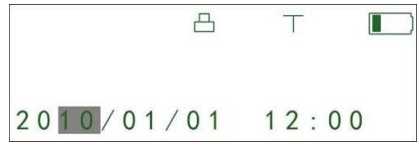
8. Operation

Note: When the system is in working condition, if there is no blocking wall between indoor monitor and peephole, you must keep them above 6 meters apart to avoid 'whistle' sound.

A Setting

(1) Date and time

When indoor monitor is in non-talk mode, press button for 3 seconds, there will be a "T" (for time) character on the left side of the battery symbols on the screen. Users can set the date (year/month/day) and the current time (hour/min). Time format is 24 hours. Only one peephole with one indoor monitor is available for date setting. Press ◄, ► button to select, press ▲, ▼ button to adjust the date and time in grey.



(2) Melody and volume

When indoor monitor is in non-talk mode, press ▶ button to select one of the 16 chord melodies as the sound. Press◀ choose to the volume of melody (adjust level: 1-2). 16 chord melodies are Ding-dong, To Alice, Westminster bell, Butterfly lovers, The cygnet, Red river valley, My heart will go on, Turkey's march, Small dance, Congratulations you, William's prelude, Love romance hudson, Memory, The Little Mermaid, Green sleeves, Romeo and Juliet.

(3) Talk volume

In the talk mode, press ◀,▶ to adjust the talk volume, adjust level: 0-7

(4) Brightness

In the talk mode, when indoor monitor has dynamic image from peephole, press ▲, ▼to adjust brightness. Adjust level: 0-7

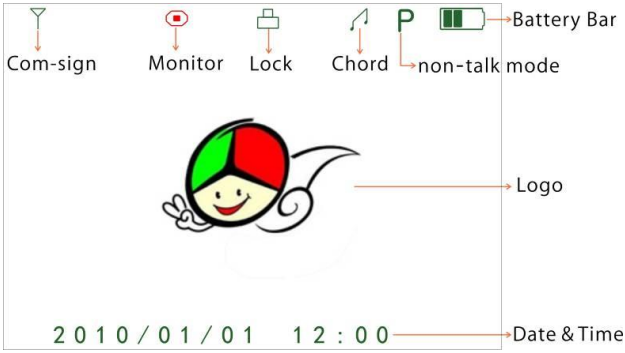
B Operation

(1) Peephole on: Turn the power switch to 'ON '.

Peephole off: Turn the power switch to "OFF" to close the peephole.

Indoor monitor on/off: Turn the power switch to "ON", working light displays red and rings the melody. Turn the power switch to "OFF", working light is off.

Maximum com-sign is level 6. Maximum battery bar is level 4.



(2) Talk, unlock

Visitor presses “call” button of the peephole. All indoor monitors will sound melody.

A. Press button of one indoor monitor to speak to visitor before unlock. If you want to let other indoor monitor to talk, press button to end the current dialogue, then another indoor monitor could press button to speak to visitor.

When in talk mode, press button to unlock the door lock, the unlock signal shows on the screen. When press button, the unlock signal will disappear.

Press button to turn off the screen and enter standby mode, or it will turn into standby mode automatically after 30 seconds.

B. If you do not want to let the visitor go in, no operation or press the button to turn off the screen and then enter into standby mode.

Indoor monitor enters into the standby mode after 30 seconds if no any operation.

Note: if you use multiple indoor monitors, please keep distance among indoor monitors.

(3) Monitor

For one peephole or more peepholes with one indoor monitor, if there is no calling from the peephole, and the indoor monitors are in standby mode. User can press the button once to wake up the indoor monitor. Press button again to enter monitor mode and monitor the outdoor as long as you like, monitor signal will display on the screen. Press button again to quit and turn off the screen.

For several peepholes with one indoor monitor, in monitor mode, press button to show the image from the CAM1, CAM2, CAM3, CAM4 (if the system has) in sequence. At the last peephole, press button again to quit and turn off the screen.

(4) Charge

For the first time, the battery should be charged for 3 hours every time, Charging led is in red when charging, it turns green when the battery is filled. The color of the battery bar will change from green to red when the battery is in low power.

(5) Motion Detection On and Off

Press “Call” button of the camera of peephole for more than 6 seconds, the motion sensor work mode will be switched between on and off. If Infrared light firstly flash and then turn on, the motion sensor will start to work. If the Infrared light firstly flash and then turn off, the motion sensor will stop working.

When power off and then power on, the default work mode will be motion sensor off. If the user needs to turn on motion sensor, you can follow above instruction to handle it.

C Picture

(1) Take pictures

When there is video from peephole, press button to take a picture, one press captures one picture.

When the call button of peephole is pressed, if the user isn't in or no any operation, all indoor monitors automatically save the image from the outdoor after 10 seconds. When take a new picture, it will replace the first picture if no is available.

When the visitor come close to the peephole camera within 1 meters, the indoor monitor will start to work and take one photo.

(2) Browse pictures

In the non-talk mode, press ▲, ▼ button to browse the stored pictures, then press button or after 10 seconds to quit browse mode.

(3) Delete pictures

Firstly turn off the indoor monitor, then press and button together, turn on the indoor monitor, press and button until the screen displays text: ’Delete all photo, please wait’ ‘no photo , Please Power off’. After that all pictures have been deleted. Please turn off the indoor monitor.

D Pair

1 Pair peephole with indoor monitor

Remarks: The system only supports 3 models. User can’t mix them when purchase. For one-to-one system, adding more peepholes host can’t become multiple-to-one system. Adding more indoor monitor can’t directly become

one-to-multiple system.

(1) 1V1 system is composed of one peephole and one indoor monitor

Press 'pair' button of peephole, indicating light flash, press and button of indoor monitor at the same time, the screen will show "ver. 1v1 paring'. If pairing succeeds, the video from peephole will be shown in the screen of indoor monitor.

(2) 1VN system is composed of one peephole and up to 4 indoor monitors

Firstly, press 'pair' button of peephole, indicating light flash, press and button of indoor monitor at the same time, the screen will show "VER. 1v4 pairing. If pairing succeeds, the video from peephole will be shown in the screen of indoor monitor. Secondly, repeat the above operation for each indoor monitor.

(3) NV1 system is composed of up to 4 peepholes and one indoor monitor

Remarks: To pair this system is more complex than to do the above two systems. After turn on peephole and indoor monitor, press button as soon as possible so not let any part enter into standby mode.

Firstly, press the pair button of peephole, indicating light flash, press and button of indoor monitor at the same time, the screen will show "ver4 4V1 pairing. If pairing succeeds, the video from peephole will be shown in the screen of indoor monitor. Secondly, repeat the above operation as soon as possible until finish all pairing. Thirdly, check whether pairing succeed, let system power on again, and then press 'monitor' button continuously to monitor each peephole, if each one can work, it means that system pairs successfully. Otherwise repeat the first step.

2 Pair unlock control with door phone system

Unlock control is connected to 12V power adapter. Peephole uses the battery, or is connected to the power adapter. Firstly press the pair button of unlock control, the pair light will flash once. Press the button of the indoor monitor under talk mode, pair light will continuously flash.

Once again press the pair button of unlock control, pair light stops flashing.

Finally press the button of the indoor monitor under talk mode, the pair light will flash 3 seconds, it means that pairing is successful.

3 Pair remote control with unlock control

Unlock control is connected to 12V power adapter. Firstly press the pair button of unlock control, pair light will flash once. Press the button of remote control, pair light will continuously flash.

Once again press the pair button of unlock control, pair light will stop flashing.

Finally press the button of remote control, the pair light will flash 3 seconds, it means that pairing is successful.

9. Specifications

Peephole		Indoor monitor	
Light Source	2 LED lights	USB Power	Input：100-240V 50/60Hz Output：DC 5V/1A
Camera	CMOS 300K pixels	Screen	3.5”TFT 320×240 7”TFT 800×480
Battery	BL-5J 1250mAh, or 5V 1A power switch	Battery	BL-5J 1250mAh
Size	102×70×13.8mm	Size	3.5” 141×87×20 mm 7” 236×130×18 mm
Material	Zinc alloy	Recharge time	3 hours
Standby	1~2 months	Standby	3.5” 20 days 7” 4 days

10. Failure diagnosis

Defect	Judgment	Operation
Indoor monitor or peephole unable to start	If turn the switch to the “on”?	Turn the switch to the On
	If the power of li-ion batteries is not enough?	Charge the li-ion batteries
Indoor monitor unable to charge	If the plug of power adapter correctly plug into USB charging?	Re-connect the devices and power adapter
	If battery is in indoor monitor?	Open battery cover, insert battery, and then insert the battery cover.
Speaking state no voice	If the volume is adjusted to be the least	To adjust the volume to be suitable
The image is flicking or noise	If the indoor monitor is close to TV set, fluorescent lamps, mobile monitor which has microwave oven and magnetic wave?	Keep off these things which have microwave oven and magnetic wave.
The indoor monitor shows no signal image	If the indoor monitor is far away from the indoor monitor?	Keep the distance within 60 meters
	If there is other strong magnetic space bother?	Put the indoor device out of the strong magnetic space